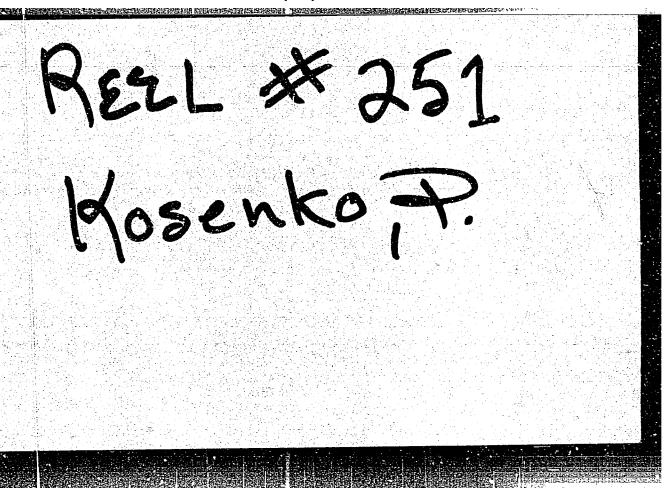
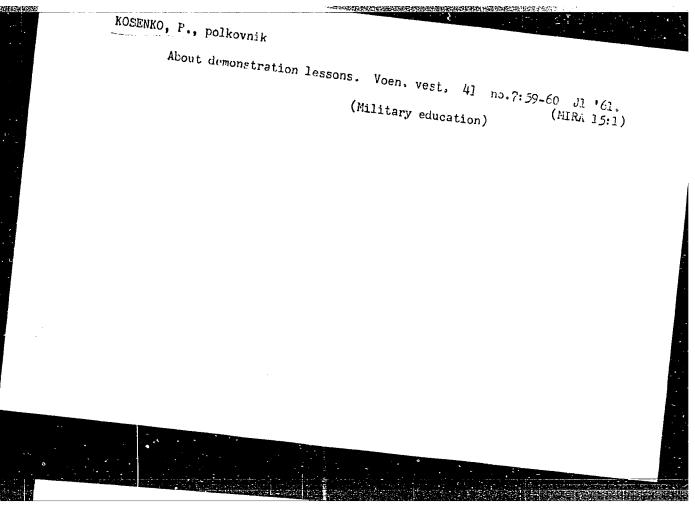
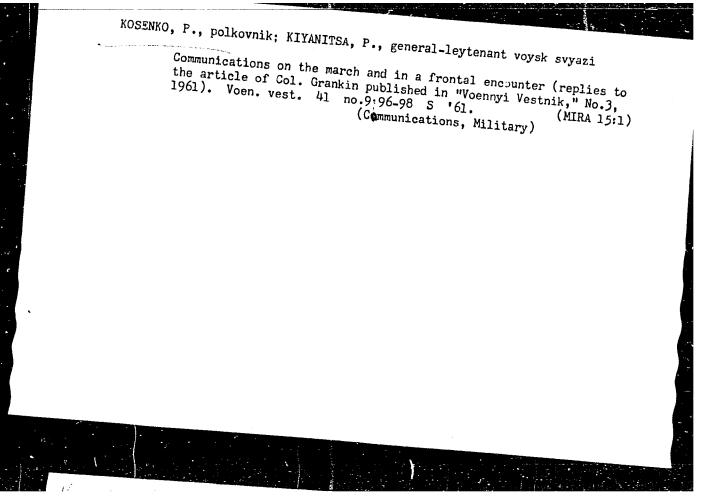


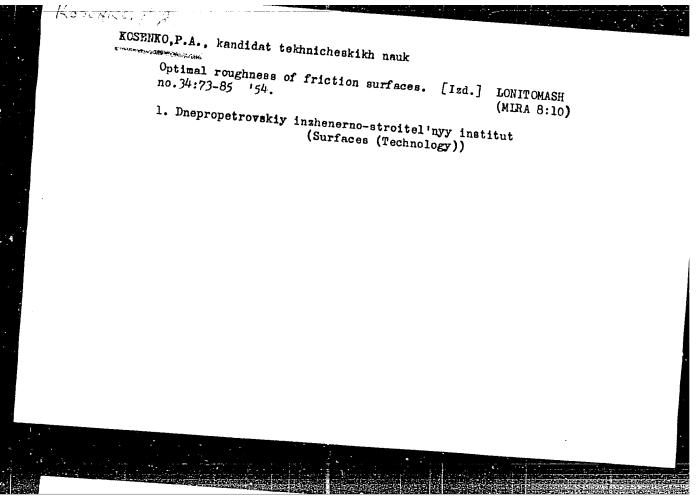
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ANDRIYENKO, Leonid Vasil'yevich [Andriienko, L.V.]; KOSKHKO, P.F., red.;

TUBOLEVA, M.V. [Tubolieva], red.

[For the further development of the collective-farm system]

Za dal'shyi reskvit kolhospnoho ladu. Kyiv, 1958. 47 p.

(Tovarystvo dlia poshyrennia pollitychnykh i naukovykh znan'

Ukrains'koi RSR. Ser.J. no.17)

(MIRA 12:3)

(Collective farms)

(Machine-tractor station)

KOSENKO, P.Ye., kand.tekhn.nauk; TYLKIN, M.A., kand.tekhn.nauk

Mechanized feed and removal of flux in the automatic build-up welding of metalworking equipment. Svar. proizv. no.7:35-36 Jl '60. (MIRA 13:7)

1. Dneprovskiy metallurgicheskiy zavod im. Dzerzhinskogo.
(Welding--Equipment and supplies)
(Metalworking machinery--Maintenance and mpair)

TYLKIN, M.A.; KOSENKO, P.Ye.; YEROSHKIN, M.G.

Introducing automatic control of oxyacetylene hardening of cylindrical gear. Biul.TSIICHM no.9:47-49 160. (MIRA 15:4)

1. Dneprodzerzhinskiy vecherniy metallurgicheskiy institut (for Tylkin, Kosenko). 2. Metallurgicheskiy zavod imeni Dzerzhinskogo (for Yeroshkin).

(Case hardening) (Automatic control)

KOSENKO, P.Ye., kand.tekhn.nauk; SARANDACHEV, V.I., inzh.; YALOVOY, N.I., inzh.

Protection of water-ccoled heating furnace elements by metallized chromium-nickel coatings. Stal' 23 no. 3:257 Mr '64. (MIRA 17:5)

1. Dneprodzerzhinskiy metallurgicheskiy zavod-vtuz im. M.I. Arsenicheva.

KOSENKO, P.Ye.; SAPRYKIN, V.P.; SARANDACHEV, V.I.; GARANCHUK, V.A.

Steel, injector-type burners, with protective coatings. Metallurg 10 no.12:37 D '65. (MIRA 18:12)

1. Dnegrodzerzhinskiy metallurgicheskiy zavod-vtuz.

KOSENKO, P.Ye.; DUBINA, Yu.G.

Testing protective coatings on crown refractories. Ogneupory 30 no.6:24-26 '65. (MIRA 19:1)

1. Dnepropetrovskiy metallurgicheskiy zavod-vtuz imeni Arsenicheva (for Kosenko). Metallurgicheskiy zavod imeni Dzerzhinskogo (for Dubina).

YEFREMOV, V.V.; KOSENKO, S.A.: MAKARYCHEV, A.I.; MASLENNIKOVA, Ye.M.; TIKHOMIROVA, A.I.

FORTHKO, J.A.

Effect of some vitamins B on the higher nervous activity. Vitaminy no.2:40-60 '56. (MLRA 10:8)

1. Laboratoriya izucheniya vitaminov i laboratoriya vyashey nervnoy deyatel'nosti Instituta pitaniya AMN SSSR, Moskva (VITAMINS--B) (CEREBRAL CORTEX) (DEFIGIENCY DISEASES)

KOSENKO, S. A. Cand Med Sci -- (diss) "Effect of vitamin B6 deficiency upon the conditioned-reflex activity of white rats." Mos, 1957. 12 pp 21 cm. (Acad Med Sci USSR. Inst of Bankham Nutrition.") 200 copies (KL, 24-57, 121)

-77-

MLEASTERN TO THE TENEST TO TH

KOSENKO, S. A., KRAYKO, Ye.A.

Some data on the vitamin C supply of the child's body. [with summary in English]. Vop.pit. 17 no.4:24-28 Je-Ag '58 (MRA 11:7)

1. Iz laboratorii izucheniya vitaminov (zav. - prof. V.V. Yefremov)
Inetituta pitaniya AMN SSSA, Moskva.
(VITAMIN C. metabolism
requirement in child. (Rus))

AND STREET OF THE PROPERTY OF

KOSENKO, S.A.

Importance of vitamin B₆ in ensuring the normal activity of the cerebral cortex in animals with various types of central nervous systems. Vitaminy no.4:123-129 '59. (MIRA 12:9)

1. Laboratoriya izucheniya vitaminov Instituta pitaniya Akademii meditsinskikh nauk SSSR, Moskva.
(PYRIDOXINE) (CEREBRAL CORTEX)

KOSENKO, S.A.

Significance of vitamin B₆ in the normal activity of the cerebral cortex. Zhur. vys. nerv. deiat. 10 no.2:291-296 Mr-Ap '60. (MIRA 14:5)

1. Laboratory of Vitamin Study, Instituta of Diet, U.S.S.R. Academy of Medical Sciences, Moscow.

(PYRIDOXINE) (CEREBRAL CORTEX)

BABADZHANYAN, M.G.; KALNYN', V.R.; KOSENKO, S.A.; KOSTINA, Ye.I.

Effect of supplementary vitamin intake on some physiological functions of workers in electric locomotive brigade. Vop. pit. 19 no. 5:18-24 S-0 '60. (MIRA 14:2)

l. Iz otdela gigiyeny pitaniya (zav. F.M. Mirochnik) i fiziologicheskoy laboratorii (zav. - kand.med.nauk A.M. Volkov), TSentral'noy nauchno-issledovatel'skoy laboratorii gigiyeny i epidemiologii Ministestva putey soobshcheniya SSSR i iz laboratorii izucheniya vitaminov (zav. - prof. V.V. Yefremov) Instituta pitaniya AMN SSSR, Moskva. (VITAMINS)

ALBOMORNOS DE DESENTA DE PROPERTO DE LA PERSONA DE LA PERS

(RAILROADS-EMPLOYEES-DISEASES AND HYGIENE)

MASLENIKOVA, Ye.M.; KOSENKO, S.A.

Excretion of riboflavin in children from 3 to 7 years of age. Vop. pit. 21 no.5:31-36 S-0 '62. (MIRA 17:5)

1. Iz laboratorii izucheniya vitaminov (zav. - prof. V.V. Yefremov) Instituta pitaniya AMN SSSR, Moskva.

SHARFENAK, Anatoliy Ernestovich; KOSENKO, Sergey Alekseyevich; GOL'DENBERG, G.S., red.

[Laboratory work in organic chemistry] Praktikum po organicheskoi khimii. Moskva, Vysshaia shkola, 1965. 170 p. (MIRA 18:4)

```
Calculation of the energy of earthquakes. Trudy Geofiz.inst. no.21:
3-15'53.
(Seismometry)
```

ADRIANOV, P.K.; ANDRIANOV, S.M.; BEREZIKOV, B.S.; GOLOVKO, V.G. [Holovko, V.H.]; DOBROVOL'SKIY, A.V. [Doborovol's'kyi, A.V.]; DOVGAL', M.F. [Dovhal', M.F.]; YELIZAROV, V.D. [IElizarov, V.D.]; ZHIZDRINSKIY, V.M. [Zhyzdryns'kyi, V.M.]; ZVENIGORODSKIY, O.M. [Zvenigorods'kyi, O.M.]; ZAYCHENKO, R.M. [Zaichenko, R.M.]; IVANERKO, Ye.I. [Ivanenko, IM.I.]; KOMAR, A.M.; KOS'YANOV, O.M.; KAZAKOV, O.I.; KOSENKO, S.K.; KLIMENKO, T.A.; KIR'YAKOV, O.P.; KALISHUK, O.L.; LELICHENKO, M.T.; LEBEDICH, M.V.; MIKHAYLOV, V.O. [Mykhailov, V.O.]; MOROZ, I.I.; MOSHCHIL', V.Yu. [Moshchil', V.IU.]; NEPOROZHNIY, P.S. [Neporozhnii, P.S.]; NEZDATNIY, S.M. [Nezdatnyi, S.M.]; NOVIKOV, V.I.; POLEVOY, S.K. [Polevoi, S.K.]; PEREKHREST, M.S.; PUZIK, O.Ye. [Puzik, O.E.]; RADIN, K.S.; SLIVINSKIY, O.I. [Slivins'kyi, O.I.]; STANISLAVSKIY, A.I. [Stanislavs'kyi, A.I.]; USPENSKIY, V.P. [Uspens'kyi, V.P.]; KHORKHOT, O.Ya.; KHILYUK, F.P.; TSAPENKO, M.P.; SHVETS, V.I.; MAL'CHEVSKIY, V. [Mal'chevs'kyi, V.], red.; ZELENKOVA, Ye. [Zelenkova, E.], tekhn.red.

[The Ukraine builds] Ukraina buduie. Kyiv, Derzh.vyd-vo lit-ry z budivnytstva i arkhit., 1957. 221 p. (MIRA 11:5) (Ukraine--Construction industry)

KOSENKO, S., ingh.-arkhitektor

Planning and building villages is the most important task of designers and builders. Sil'. bud. 9 no.9:16-18 S '59.

(Waraine--City planning)

SHILIN, I. G.; KOSENKO, T. A.

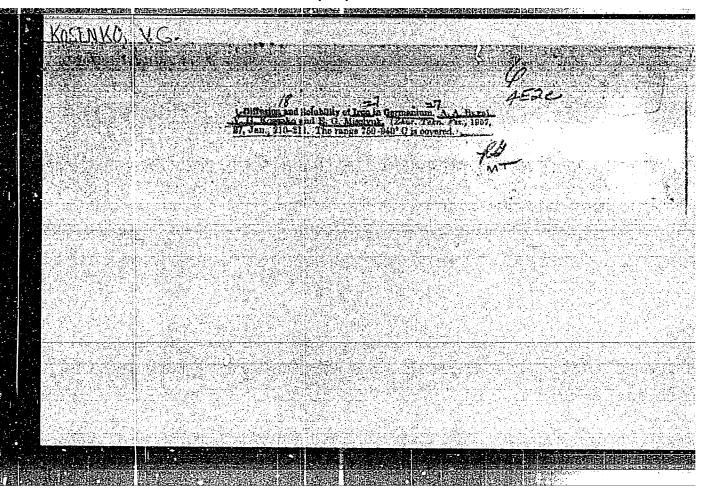
COMPANY OF THE PROPERTY OF THE

Complex solving of the problem of the distribution and production organization of butter and cheese industry enterprises. Isv. wys. ucheb. zav.; pishch. tekh. no.5:3-8 '62. (MIRA 15:10)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova 1 Moskovskiy institut narodnogo khozyaystva imeni Plekhanova.

(Industrial organization)

Mikhail Andreevich Shatelen; on his 90th birthday. Izv.AN SSSR. Otd.tekh.nauk no.1:165-166 Ja '56. (MLRA 9:5) (Shatelen, Mikhail Andreevich, 1866-)



KOSENKO, V.I.

Labor productivity and cost of metal scrap processing. Met. 1 gormorud. prom. no.4:34-35 Jl-Ag *65. (MIRA 18:10)

KOSENKO, V.K.

医阿里斯氏试验 医多种性皮肤 医动物性 医动物性 医皮肤 医皮肤 医皮肤 医皮肤 医多种毒素

Incidence of tuberculosis infections in familial contacts from foci of tuberculosis patients. Sbor. nauch. trud. Rost. gos. med. inst. no.22:45-50 '63. (MIRA 18:7)

1. Iz kafedry epidemiologii Rostovskogo gosudarstvennogo meditsinskogo instituta (zav. - prof. T.D. Yanovich).

VOLEVAKHA, M.M., KOSENKO, V.M., red., GANUSETS', O.I., red. [HANUSEIS!, O.I.]

[Atmospheric phenomena and indications of weather] Atmosferni iavyshcha i prykmety pohody. Kyiv, 1958. 31 p. (Tovarystvo dlia poshyrennia poliychnykh i naukovykh znan' Ukrains'koi RSR. Ser. 5, no. 7)

(MIRA 11:10)

(Meteorology)
(Weather)

STATE OF THE STATE

DEMESHEVA, G.A.; IVANCHIKOVA, E.I.; KRIVOSHAPKIN, M.A.; LEYCHIK, V.M.;

OVSYANKINA, V.I.; FROETISTOVA, V.P.; TSINMAN, M.Z.; BEKKULOVA, S.N.;

SUBKHANBERDINA, K.Kh.; RUBAKOV, P.I., laureat Stalinskoy premii;

spetsial'nyy redaktor; BALANINA, O.V., kandidat sel'skokhozyaystvennykh nauk, spetsial'nyy redaktor; SAKHAROVA, V.M., spetsial'nyy

redaktor; KOSENKO, V.V., spetsial'nyy redaktor; ZHIZNEVSKIY, F.V.,

otvetstvennyy redaktor; BURLACHENKO, L.A., redaktor; ALFEROVA, P.V.,
tekhnicheskiy redaktor

[Experience of agricultural leaders of Kazakhstan; an annotated bibliography] Opyt peredovikov sel'skogo khoziaistva Kazakhskoi SSR; annotirovannyi ukazatel' literatury. Alma-Ata, 1955. 290 p. (MIRA 9:12)

1. Akademiya nauk Kazakhakoy SSR, Alma-Ata. TSentral'naya nauchnaya biblioteka. 2. TSentral'naya nauchnaya biblioteka Akademii nauk Kazakhakoi SSR. (for Domesheva; Ivanchikova, Krivoshapkin, Ieychik, Ovsyankina, Feoktistova, TSinman)

(Bibliography---Kazakhatan---Agriculture)

KOSENKC, V. YE., MISELYUK, YE. R. - C Sepnisto-screbrinykh fotcelementakh i ikh primenenii v fotometrii, Kratkoe acderkhaniye doklada i preniy. Izvestiya Akad. nauk SSSR, Seplya Fiz., 1948. No.4, s. CC9

So: Letopis' Zhurnal'nykh Statey, Vol. 47, 1948

KOSENKO, V. YE.

USSR/Physics

Photometry
Photoelectric Cells

Sep /Oct 48

"Silver Sulfide Photoelements and Their Use in Photometry," Ye. G. Miselyuk, V. Ye. Kosenko, Phys Inst, Acad Sci Ukrainian SSR, 3/4 p

"Iz Ak Nauk SSSR, Jer Fiz" Vol XII, No 5

Investigations of silver sulfide photoelements show that they have high selective sensitivity in wide spectrum interval, especially in red and infrared zones. They are also distinguished by great stability in spectrum characteristics. Discusses aging of such photoelements and desirability of producing them for photometric purposes.

PA 19/49T83

of Silver Sulfide Photosenko, Ye. G. Miselyuk, ci Ukrainian SSR, Kiev, 9 XVIII, No 11 slements are very sensiticlose to the infrared base been somewhat limited on on their properties. erformance of silver sulfactions present results of thors present results of lay photoelements manuface May 48. 18/49	KOSENKO, V. YE.	photoelements differs performance data. Au- conducted on present- in USSR. Submitted 1	USSR/Physics (C	to red 1 However, to lack noticed	"Physical Prope olements," V. Y. Inst of Phys, A. "Zhur Tekh Fiz"	USSR/Physics Photosisc Red Light
Nov 48 Photo- lyuk, Xiev, 9 pp sensitive ured bands. mited due ies. Also er sulfide 18/49T107 Nov 48 manufacture 12/49T107		iffers greatly from theo: a. Authors present resulted the photoelements in the theology with the second sec	ontd)	photoelements are verys close to the rays close to the rays close to the rays close has been somewhat the property of their property of their property of their property of their property of the rays	rties of Silver Sulfide e. Kosenko, Ye. G. Mise cad Sci Ukrainian SSR, j	tric Cells
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KOSENKO, Viktor Yefimovich; SKOPENKO, Aleksandr Ivanovich; PISAHENKO, M., redaktor; NOVIK, A., tekhnichniy redaktor

[Semiconductors] Napivprovidnyky. Kyiv, Derzh, vyd-vo tekhn. lit-ry URSR, 1956. 83 p. (MIRA 10:4)

(Semiconductors)

KOSENKO, V. Te.

Diffusion of vaporised antimony and zinc in germanium. Izv. AN SSSR. Ser. fiz. 20 no.12:1526-1532 D '56. (MIRA 10:3)

 Institut fiziki Akademii nauk USSR. (Germanium)

KOSENKO, V.Ye., Cand Phys-Math Sci -- (diss) "Properties of n-p transitions in germanium obtained by means of diffusion of admixtures from vapor phase". Kiev, 1957, 15 pp (Acad Sci Ukr SSR, Inst of Physics), 120 copies. Bibliography at end of the text (10 titles). (KL, 1-58, 114)

- 3 -

SUBJECT

USER / PHYSICS

CARD 1 / 2

PA - 1943

AUTHOR

BUGAJ, A.A., KOSENKO, V, E., MISELJUK, E.G. The Diffusion and the Solubility of Iron in Germanium.

TITLE PERIODICAL

Zurn.techn.fis.27, fasc.1, 210-211 (1957)

Issued: 2 / 1957

For the experiments concerning the determination of the diffusion coefficient and the solubility of iron in germanium which were discussed here, iron with the radioactive isotope Fe⁵⁹ was used. For the purpose of counting \(\gamma \) -rays a scintillation counter with a photomultiplier FEU-19 and with a NaJ-crystal were constructed. Pulses were transferred to a counting scheme and then to an electromechanic counter. Samples were cut out of monocrystalline germanium with the specific resistance $Q \gg 40$ ohm.cm in form of plane-parallel disks of 20 mm diameter and from 3 to 6 mm thickness. For the determination of the utmost solubility of iron in germanium the germanium samples were electrolytically covered with iron on their flat sides, and after a sufficiently long diffusion annealing (by which uniform saturation of the germanium with iron is warranted), the excess iron was ground away from the samples. The concentration of iron in germanium was determined by radioactive counting (by comparison with the counting result obtained in the case of an exactly weighed radioactive iron preparation).

A graph illustrates the curve of the utmost solubility of iron in germanium in the temperature interval of from 750 to 940° C. As seen from the graph, the utmost solubility of iron in germanium changes at these temperatures from 5.1014

IMPLIANTOM: LUARICUT INDATAMACO CO SSR, Kiev.

AUTHOR: TITLE:

PA - 2532 KOSENKO, V.E. Investigation of Plane Germanium Diode Characteristics.

(Issledovaniye kharakteristik ploskostnykh germaniyevykh diodov,

Russian).

Zhurnal Tekhn. Fiz., 1957, Vol 27, Nr 3, pp 452 - 460 (U.S.S.R.) PERIODICAL:

Reviewed: 5 / 1957 Received: 4 / 1957

ABSTRACT:

A considerable rise of specific conductivity of Germanium plane dicdes in the direction of passage was found. Also an irregular distribution of specific conductivity with respect to diode-thickness was observed. In the case of high amperages it is highest in the case of end layers. The phenomena observed prove that unstable carriers are drawn into great depths in the thickness of the semiconductor by a passing current. The direct current in thick diodes at a constant voltage is to the thickness in the ratio of i ~ d-2 (d...thickness of the diode). The passing through current is to the voltage in the ratio of $i \sim (v - v_k)^m$ $(v \cdot \cdot \cdot \cdot)^m$

voltage, v ... diffusion-potential, i... current-density). Values of from 1 to 2 were observed for m. Opposite dependences of the passing-through current on temperature were observed in the domains of from 0 to v \sim v_k and at v > v_k. In the domain of

v = 0,6 - 0,8 volts the volt-ampere-characteristics intersect at

Card 1/2

OR RELEASE: 06/14/2000

CIA-RDP86-00513R000825110001-3

KOSENKO, V. YE.

AUTHORS TITLE

57-8-6/36 Bugay, A.A., Kosenko V.Ye., Miselyuk Ye.G., Diffusion and Solubility of Silver in Germanium.

(Diffuziya i rastvorimost! serebra v germanii - Russian)

PERIODICAL

Zhurnal Tekhn.Fiz., 1957, Vol 27, Nr 8, pp 1671-1675 (U.S.S.R.)

ABSTRACT

The experiments were carried out for the purpose of supplementing the data on the admixtures in Germanium and for the purpose of a comparison between the experimental results and the diffusion theory. The investigation of the diffusion and the solubility of silver in Germanium was carried out according to the radioactive method using the silver isotop Ag110. The experiments showed that the maximum solubility is reached at 875°C and that it amounts to 1.1015 at/cbm. The authors show that, as regards the magnitude of the diffusion coefficient, silver takes the place between copper and gold, being much nearer to copper, nickel and iron. Therefore we can assume that the diffusion process of silver is the same as with these other elements. The comparison between the experimental results and the diffusion theory shows a good coincidence of Li, Ag and Fe with an exactness to the constant multiplicand 2 1 (depends on the

kind of lattice of the solvent). The point for Ni in the experiments happened to be situated exactly on the theoretical straight line. (3 illustrations and 2 Slavic references).

Card 1/2

APPROVED FOR RELEASE: 006/14/2000:11 CIA-RDP86: 00513R000825110001-3"

ASSOCIATION

Kiyev Institute for Physics of the Academy of Sciences of the Ukrainian SSR.

(Institut fiziki AN USSR, Kiyev).

SUBMITTED AVAILABLE

February 21, 1957

Card 2/2

Library of Congress.

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Card 5/5 37	AVAILABLE: Library of Congress	Pressors, T. A., M. A. Ertwor, T. S. Tertoprakhor, A. G. Origoriyeta and Ys. Y. Mailevia. Fredmitton and investigation of New Senicon- ductor Materials	STREET. 118-Kffeet of Surface Condition on the Electrical Properties of Type Alligh Computed	Sairmas, L. (Institute of Technical Physics, Csechoslowak Academy of Soismoss). Sasiconductor Compounds With an Excess of One of the Compounds	Trofizento, A. P., and G. A. Padorus. Effect of Tempering and Certain Impurities on the Dark Resistance and Photosensitivity of Odd Single Crystals	Restable, 1.3., 1.1. Wirthborsky, and V. D. Pursenko, Kron of Ground Good Tomber Physical Properties Properties	Dudkin, L. D., and W. Ch. Abrikosov. Problems of Alloying Seminon- ductor Illoys	Abdullarer. G. B., C. A. Akhunder, A. A. Kuliyer, and Z. A. Aliyerera. On the Diffusion of Certain Metals in Polycrystallins Sasmius	Abdullayer, G. B., M. I. Allyer, A. A. Bashshallyer, and G. M. Allyer. Tricct of Halids ispurities on the Physical Properties of Selanius	Haiung Yawehing (Institute of Applied Physics, Chinase People's Republic) Importance of Using Pure Water for Webling Materials Used in Semiconductor Engineering	Petrov, D. A., Tu. M. Smahhor, W. V. Zondestvenihre. 3. 16. Nighthebins, and W. D. Errestizors. Eching of Silicon Single Crystals	Trougil (Enstitute of Technical Physics, Csechoslovak Academy of Sciences). Froblem of Cotaining Pure Silicon	Vasilerskyn, V. N., and Ya. C. Missipak Investigation of Segre- und Solubility of Some Impurities in Germanium During Crystallizat	Vyaticin_in_l, and Y. A. France, Investigation of hoistening of Semiconductors with Newlt	Burry, A. A., T. Te. Kossako, and Te. G. Misslynk, Diffusion and Sold- bility of Iran and mains "In Communities	Somewiti, L. (Institute of Physics, Polish Academy of Solences). Rifect of the Introduction of Minority Current Carriers on Light Se Cleriton From Germanius	Majewait, I. (Institute of Basic Technical Problems, Polish Loadesy of "Salmadess," Properties of P-W jumptions in Germanium Simple Crystals Withdrawn From the Meli by Pulling	Tolpygo, K. B. Investigation of Hole Zones of Diamond-Type Gryskils on the Manufacture than Malitalectron Theory Saigest, Landandtoid (Leadary of Sainness, Hungarian People's Republic). Concerning the Froblem of Saniconductor Point-Contents	Calorazor, Y. V. On the Problem of the Sole of Some Factors in the Growth Process of Single Crystals From a Melt	COTELIZ: The collection contains reports submitted at the finite Conference and England Conference on Seniconductor Materials, held at the Intitute of Netallurgy issuit in Asy 1957. The reports deal with problems in A. Baybor, as SENI-Possow, in May 1957. The reports deal with problems of obtaining and immustigating generating, silloon, and seniconductor compounds. The collection was first edited by D. A. February Doctor of December. The collection was first edited by D. A. February Doctor of Their Collection was first edited by D. A. February Doctor of Their Collection of the reports.	PURPOSE: This collection is intended for technical and scientific personnel concentrad with the irrestination and production of sendonductor materials. It may also be used by students in schools of setallurgy.	Sponsoring keeps: Akedesdyn and SCE. Institut setallurgi iseni h. h. Baytors. Lapt. Ed.: N. Bu. Abrikosov, Dottor of Chamical Sciences; kt. of Tablishing Scaes: P. F. Lobotor.	Voprosy metallurgii i fiziki polisprevodnikor; truly 3-go movembulaija. (Problems in the Metallurgy and Physics of Semiconductura; franzacticas of the Third Conference; boscow, Idro IN SSSR, 1959, 129 p. Erreia slip inmeriad. 3,200 espise printed.	PRISE I SOCK EMPIORATION SOVERhobaniye po poluprovodnikovym materialam. Moscov, 1957
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SOV/181-1-10-18/21

24(6) 24,7700

AUTHOR:

Kosenko, V. Ye.

TITLE:

Diffusion and Solubility of Cadmium in Germanium

PERIODICAL:

Fizika tverdogo tela, 1959, Vol 1, Nr 10,

pp 1622 - 1626 (USSR)

ABSTRACT:

A circular, polished germanium disk (diameter: 20 mm; thickness 1.5 mm, Q > 35 Ω.cm) was covered with radioactive Cd¹¹⁵ and sealed in an evacuated quartz ampule. The sample was annealed in the temperature range 760-915°C within 140-12 h. Layers were then taken from the samples, and the concentration of the cadmium diffused into the germanium was determined from

Card 1/2

Diffusion and Solubility of Cadmium in Germanium

sov/181-1-10-18/21

high activation energies. The results were discussed with Ye. G. Miselyuk and T. I. Kucher. There are 4 figures and 11

references, 4 of which are Soviet.

SUBMITTED:

March 2, 1959

Card 2/2

KOSENKO, V.Ye.; MISELYUK, Ye.G.

Some characteristics of the FESSU silver sulfide photocells.

Prib. i tekh. eksp. no.3:127-130 My-Je '60. (MIRA 14:10)

1. Institut fiziki AN USSR. (Photoelectric cells)

S/181/61/003/001/009/042 B102/B212

AUTHORS:

Ignatkov, V. D. and Kosenko, V. Ye.

TITLE:

Evaporation of germanium in tellurium vapors

PERIODICAL:

Fizika tverdogo tela, v. 3, no. 1, 1961, 89-93

TEXT: When studying the diffusion of tellurium from the vapor phase in germanium, the authors detected that the evaporation rate of germanium was anomalously high compared to that in vacuo. This paper reports on this phenomenon which has so far been unknown in semiconductors. Germanium discs were used for these investigations (diameter: 18 mm; thickness: 1.5-2.0 mm; resistivity: 45 ohm.om). The specimens were ground and etched (100 deep) and heated to 800°C within 1/2 hr in quartz ampoules with a vacuum of 10-5 mm Hg; then, they were cooled in dry, pure air, pure tellurium was added, and the ampoules were evacuated again. After this, the specimens in the ampoule were heated up to different temperatures by using two heaters (Fig. 1). Temperature was measured with Pt-PtRh thermocouples (error: ±3°C). The evaporation rate of germanium has been

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5/181/61/003/001/009/042 B102/B212

Evaporation of germanium in...

determined from the loss in weight of the specimen (with a known surface) (accuracy of measurement: ±0.1 mg). The specimen and its surface have been studied very carefully. An X-ray examination of the Ge crystals showed that their lattice constant was equal to that of pure germanium up to +0.05 A. As the tellurium concentration in the crystals was nearly equal to that in vapor (10¹⁷ cm⁻³), they had n-type conductivity. Attempts to obtain larger crystals by varying temperature and duration of heating failed; the largest crystals were 2.3 mm. An investigation of the surface showed that evaporation took place unevenly (cf. Fig. 3). Looking at the picture (enlarged by a factor of 200) one can see that heating of germanium in tellurium vapor is a method to examine the Ge lattice structure. The dependence of the evaporation rate upon the tellurium vapor pressure has been investigated in the range of $10^{-7}-10^2$ mm Hg at a Ge temperature of 900°C; Fig. 4 gives the results. The evaporation rate W is independent of pressure above 1 mm Hg. The temperature dependence is given by: $W = W_0 \exp(-E/RT)$; E is the evaporation temperature, and W_0 is a constant. The plotted data (W = f(1/T)) represent a straight line. The slope of the line at 6.10-1 mm Hg corresponds to 12.7 kcal/mole, which is 1/7 of the Card 2/5

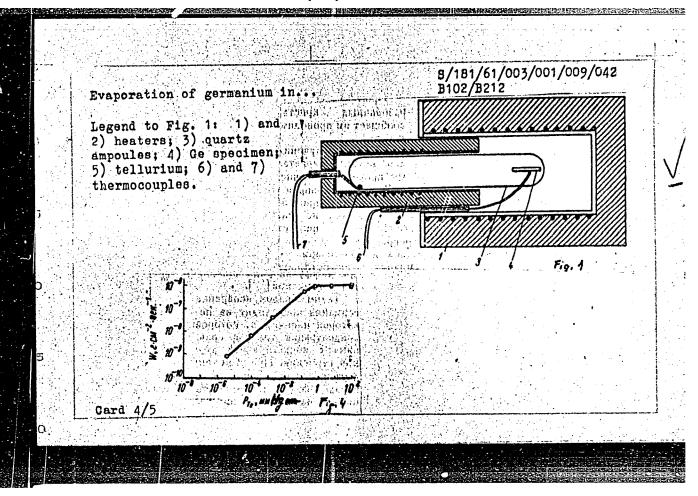
s/181/61/003/001/009/042 B102/B212

Evaporation of germanium in...

evaporation heat of Ge in vacuo. At 900°C, W of Ge in tellurium vapor is two orders of magnitude greater than that of Ge in vacuo, and at 700°C even four orders of magnitude. This effect is ascribed to the fact that tellurium diffuses several a into germanium, and the evaporation of Getakes place from a film having tellurium and germanium concentrations of the same order. A test with sulphur and selenium vapors showed the same effect but not as intensive. However, the evaporation rate of Ge is still higher than in a vacuum. Engineer R. M. Khaykin made the electron diffraction studies, and Engineer A. N. Kvasnitskaya grew the Ge single crystals. The authors thank V. Ye. Lashkarev, Academician of the AS UkrSSR, for discussions. There are 6 figures and 6 references: 4 Soviet-bloc and 2 non-Soviet-bloc.

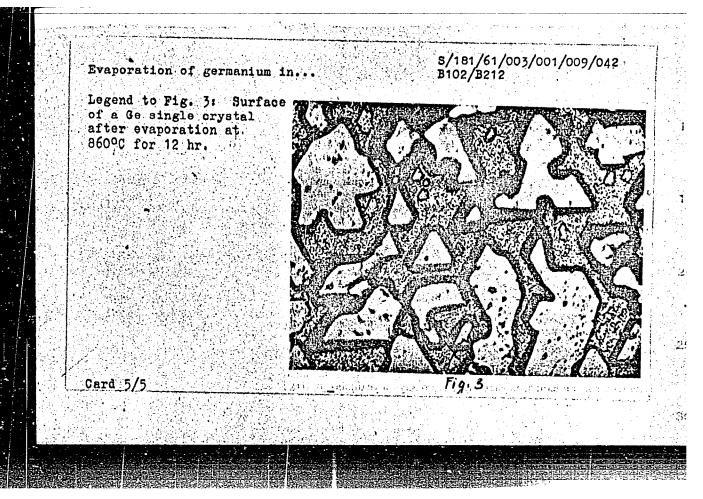
ASSOCIATION: Institut fiziki AN USSR Kiyev (Institute of Physics, AS UkrSSR, Kiyev)

May 31, 1960 SUBMITTED:



APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825110001-3"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825110001-3



9.4300 (and 1043, 1035, 1143)

S/181/61/003/002/048/050 B102/B201

AUTHORS:

Kosenko, V. Ye. and Nesterenko. B. A.

TITLE:

Evaporation of silicon in tellurium vapors

PERIODICAL:

Fizika tverdogo tela, v. 3, no. 2, 1961, 660-662

TEXT: The fact that germanium displays an abnormally high evaporation rate in tellurium vapors has already been established earlier (Ref. 1, FTT, 2, 1961); it was only natural to expect a similar behavior of silicon as well. A study has been made of the evaporation rate of silicon single crystals in tellurium vapors at temperatures of $700-1150^{\circ}$ C. The method used was the same as the one described in Ref. 1. The Si specimens submitted to an examination had a resistivity of 10 ohm cm; they were ground and etched to a depth beyond 100 μ (with three parts of 48% HF, five parts of 70% HNO₃, three parts of acetic acid, and two parts of saturated aqueous $Hg(NO_3)_2$ solution). The evaporation took place in a 20-cm long and 2-cm thick quartz ampul heated by two ovens; the temperature drop in the ampul was monotonic from one end to the other. The specimen was placed at the "hot" end. Once it was Card 1/4

Evaporation of silicon ...

S/181/61/003/002/048/050 B102/B201

evaporated, the silicon crystallized at the "cold" end of the ampul in the form of regular crystallites; an X-ray analysis of the latter revealed that their lattice constant was equal to that of pure silicon. With the silicon specimen at a temperature of 1000°C the evaporation rate of silicon was found to increase monotonically with rising tellurium vapor pressure, and when the latter attained 100 mm Hg, it was found to be already more than 10^6 times as large as the evaporation rate of silicon into the vacuum. In fact, the tellurium vapors have a two-fold effect upon the silicon evapora- ${\cal V}$ tion: on the one hand, they speed it up by an as yet unknown interaction mechanism, while on the other, they impede the passage of the evaporated Si atoms to the "cold" side of the ampul. The two effects are the stronger the higher the vapor pressure. The temperature dependence of the evaporation rate W is given by W = $W_0 \exp(-E/RT)$, where E denotes the evaporation heat; this function, in the form $logW = logW_0 - E/RT$, is with the measured values shown in Fig. 2 for 0 (1), $3 \cdot 10^{-4}$ (2), 10^{-1} (3), 10 (4), and 10^2 mm Hg (5). Curve 1 (zero pressure) has been calculated here on the basis of data found in the literature. The dependence of the evaporation heat on the tellurium vapor pressure $p_{\ensuremath{\text{Te}}}$ is tentatively represented by the

Card 2/4

Evaporation of silicon ...

S/181/61/003/002/048/050 B102/B201

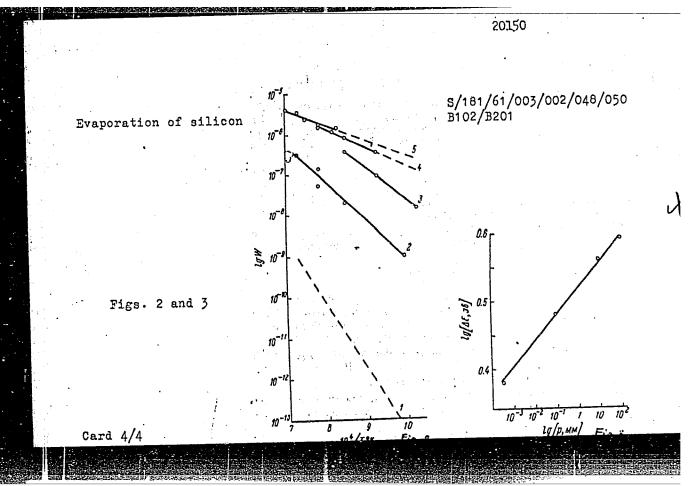
formula $E = E_o - \alpha p_{Te}^n$, where E_o is the evaporation heat on evaporation into the vacuum (E = 4.55 ev), α and n are constants. In this case, $\log \Delta E$ ($\Delta E = E_o - E$) will be a linear function of $\log p_{Te}$ (Fig. 3); the four measurement values E = 0.6, 0.91, 1.5, and 2.1 ev (for $p_{Te} = 10^2$, 10, 10^{-1} , and 3.10-4 mm Hg) lie satisfactorily upon this straight line, which confirms the ansatz for $E(p_{Te})$. Numerically, $E = 4.55 - 3.3 p_{Te}^{0.04}$. V. Ye. Lashkarev, Academician of the AS UkrSSR and the senior scientific worker Ye. G. Miselyuk are thanked for advice. There are 3 figures and 3 references: 1 Soviet-bloo v and 1 non-Soviet-bloc.

ASSOCIATION: Institut fiziki AN USSR Kiyev (Institute of Physics AS UkrSSR,

Kiyev)

SUBMITTED: July 22, 1960

Card 3/4



APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825110001-3"

S/181/61/003/007/018/023 B104/B203

18.7500 AUTHOR:

Kosenko, V. Ye.

TITLE:

Two diffusion mechanisms acting in germanium at the same time

PERIODICAL: Fizika tverdogo tela, v. 3, no. 7, 1961, 2102 - 2104

TEXT: As is known, the impurities in germanium can be divided into two groups with respect to their diffusion rate and solubility. The first group includes elements of groups I and VIII of the periodic system (e.g., Li, Cu, Ag, Fe, Ni) having a diffusion coefficient at 800°C in the order of 10⁻⁵-10⁻⁷ cm²·sec. Their solubility at 800°C lies at 10¹⁴-10¹⁵ cm⁻³. The elements of the other group (In, Zn, Ga, Cd, B, Sb, As, P, and others) have, at 800°C, a diffusion coefficient in the order of 10⁻¹¹-10⁻¹⁴ cm²·sec; the solubility at this temperature is 10¹⁷-10²⁰ cm⁻³. The author found that the "quickly diffusing" silver has a "slowly diffusing" component with higher solubility (~10¹⁸ cm⁻³). On the other hand, "slowly diffusing" indium and zinc have "quickly diffusing" components with lower solubility (~10¹⁴-10¹⁵ cm⁻³). With a suitable choice of the dimensions of the Card 1/4

25696 S/181/61/003/007/018/023 B104/B203

Two diffusion mechanisms ...

specimen and the diffusion time, two diffusion fronts differing in rate and concentration can be observed. Diffusion tests were made with the radioisotopes ${\rm Ag}^{110}$, ${\rm Zn}^{65}$, ${\rm In}^{114}$, ${\rm Te}^{125}$ by the method of removed layers. The diffusion of In, Zn, and Te occurred from the gaseous phase, silver was diffused by the method described in a previous paper by the author at al. (ZhTF, 27, 1671, 1957). Go single crystals with a resistivity of 35 ohm om were used, the activity was measured with a rescintillation counter. In his experiments, the author assumed that the diffusion proceeded from a source with constant concentration Co, and that the solubility of the impurities was equal at a given temperature. Thus, the impurity concentration can be described by: $C(xt) = C_0(1 - \text{erf } u)$, where $u = x/2\sqrt{Dt}$. The figure adjoined graphically shows results of measurement of the diffusion of tellurium in germanium at 800°C. Diffusion time was 52 hr 15 min. The "fast" and "slow" components with different solubilities are clearly to be seen. The values given in the table were determined together with V. D. Ignatkov. In all impurities, the two diffusion coefficients have a ratio of 10^4 - 10^5 , the solubilities of the two components have ratios of 10^2-10^4 . The fast component is identical with the diffusion over the Card 2/4

25696.

S/181/61/003/007/018/023 B104/B203

Two diffusion mechanisms...

interstitial points, the slow component with the diffusion over the vacancies. There are 1 figure, 1 table, and 4 references: 2 Soviet-bloc and 2 non-Soviet-bloc.

ASSOCIATION: Institut poluprovodnikov AN USSR Kiyev (Institute of Semiconductors AS UkrSSR, Kiyev)

SUBMITTED: February 21, 1961

Table: Diffusion coefficients of slow (D_M) and fast (D_G) components of various elements in germanium. C_M and C_G are the solubilities of the corresponding components.

Toble	D _M	D ₆ .	$D_{6.}/D_{M_{\bullet}}$	C _M ,	C _{6.}	C _{M.} C _{6.}	
Ag In Zn Te	2.·10 ⁻¹³ 1.3·10 ⁻¹² 6.5·10 ⁻¹³ 4 3.2·10 ⁻¹¹	9·10 ⁻⁷ [1] 6.9·10 ⁻⁸ 2·10 ⁻⁸ 5·10 ⁻⁷	4.5 · 10 ⁵ 5.3 · 10 ⁴ 3 · 10 ⁴ 1.6 · 10 ⁴	4 · 10 ¹⁸ 4 · 10 ¹⁸ 5 2.5 · 10 ¹⁸ 6 · 10 ¹⁷	3 · 1014 [1] 3.4 · 1015 2.6 · 1014 2.5 · 1015	1.3 · 10 ⁴ 1 · 10 ³ 9.6 · 10 ³ 2.4 · 10 ²	

Card 3/4

KOSENKO; V. Ye.; NESTERENKO, B.A.

Evaporation of silicon in vapors tellurium. Fiz. tver. tela 3 no.2:660-662 F '61. (MIRA 14:6)

l. Institut fiziki AN USSR, Kiyev. (Silicon) (Tellurium)

CIA-RDP86-00513R000825110001-3" APPROVED FOR RELEASE: 06/14/2000

KOSENKO, V.Yo.

Two simultaneous diffusion mechanisms acting in germanium. Fiz. tver.tela 3 no.7:2102-2104 Jl '61. (MIRA 14:8)

1. Institut poluprovodnikov AN USSR, Kiyev. (Diffusion) (Germanium)

KOSENKO, V.Ye.; KHOMENKO, L.A.

Diffusion of silver on a germanium surface. Fiz.tver.tela 3 no.10:2967-2972 0 '61. (MIRA 14:10)

1. Institut poluprovodnikov AN USSR, Kiyev.
(Diffusion) (Silver) (Germanium)

24-7500 (1144,1454)

29687 S/181/61/003/010/009/036 B102/B108

AUTHORS: Kose

Kosenko, V. Ye., and Khomenko, L. A.

TITLE:

Diffusion of silver into a germanium surface

PERIODICAL: Fizika tverdogo tela, v. 3, no. 10, 1961, 2967 - 2972

TEXT: Surface diffusion studies with metals have shown that the surface diffusion coefficients are considerably greater than the volume diffusion coefficients. Since the respective data for semiconductors are not available, the authors investigated the surface diffusion of silver on pure germanium single crystals (resistivity 30 ohm cm). The {111} faces of Ge plates of 30.20.1.5 mm were ground with a 10-µ abrasive powder and etched for 2 min in boiling perhydrol, or in HNO₃+HF (chemically polished specimens). The latter agent yielded a smoother surface. The silver was deposited from AgNO₃ aqueous solution as an 0.2-mm broad stripe or upon the end of the specimen. Diffusion annealing was carried out at

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29687 \$/181/61/003/010/009/036 B102/B108

Diffusion of silver into...

by successive removal of thin layers. Previous investigations had shown that at 700°C the surface diffusion coefficient is by $10-10^2$ times greater than the volume diffusion coefficient. The surface diffusion coefficient was calculated from the relation $C(x,t) = \frac{Q}{\sqrt{\pi}Dt} \exp(-x^2/4Dt)$. C(x,t) is the concentration at the point x, Q the total quantity of silver, t the time, D the diffusion coefficient. The silver diffusion in two series of specimens (ground and polished) between 200 and 700°C was studied. At 700°C the surface diffusion rate exceeds the volume diffusion rate by 30 times for ground by 5 times for polished specimens. At 200°, the surface diffusion coefficient amounted to $8.7 \cdot 10^{-8}$ cm²/sec for a ground, and to $1.6 \cdot 10^{-8}$ cm²/sec for a polished Ge surface. These values are 10^5 and $2 \cdot 10^4$ times higher than the corresponding values of the volume diffusion coefficients. The temperature dependence of the surface diffusion coefficient is given by $D = D_0 \exp(-E/kT)$, i.e., $D = 5.4 \cdot 10^{-4} \exp(-0.37/kT)$ for the ground specimens and $D = 9.3 \cdot 10^{-5} \exp(-0.37/kT)$ for the polished ones. The

29687 \$/181/61/003/010/009/036 \$102/\$108

Diffusion of silver into...

diffusion activation energy, i.e., the diffusion mechanism does not depend on the treatment of the surface. The difference in the D_0 -values is due to a difference in the number of surface defects. The surface diffusion coefficient as calculated from the relation $D_g = 1/8t \frac{d}{d(x^2)} \Delta \log C$ agrees

with the measured values. A determination of the "surface thickness" 6 (a layer which is characterized by high mobility of the impurity atoms or ions) yielded values which were by some orders of magnitude greater than those for metals. The high surface mobility of impurities may be one of the reasons for semiconductor aging and destruction. There are 5 figures and 11 references: 4 Soviet and 7 non-Soviet. The four most recent references to English-language publications read as follows: R. A. Nickerson, E. R. Parker. Trans. Amer. Sos. Met., 42, 376, 1950; W. C. Winegard, B. Chalmers. Cap. J. Phys., 30, 422, 1950; H. Fraunfelder. Helv. Phys. Acta, IV, XXIII, 371, 1950; N. Haskerman, N. H. Simpson. Trans. Farad. Soc., 52, 5, 628, 1956.

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Card 3/4

Diffusion of silver invo...

29687 8/181/61/003/010/009/036 B102/B108

ASSOCIATION: Institut poluprovodnikov AN USSR Kiyev (Institute of Semiconductors AS UkrSSR, Kiyev)

SUBMITTED: April 17, 1961

Card 4/4

33社2 S/181/62/004/001/009/052 B102/B138

9.4177 (1035, 1051)

AUTHOR:

Kosenko, V. Ye.

TITLE:

"Slow" diffusion of silver in germanium

PERIODICAL: Fizika tverdogo tela, v. 4, no. 1, 1962, 59 - 61

TEXT: As shown in a previous paper (FTT, $\underline{3}$, 7, 2102, 1961) one cannot speak of "rapidly" and "slowly" diffusing elements, since the first have a "slow", and the latter have a "fast" component. The coefficients of these components are different by some orders of magnitude from those of the normal ones. Now the author studies the temperature dependence of the "slow" component of Ag diffusion; Ag belongs to the elements of the "fast" group. The studies were made with Ge single crystals ($\varrho \geqslant 30$ ohmocm) and

silver nitrate solution tagged with Ag 110. The concentration of the diffused silver was determined by removing thin layers by etching in boiling perhydrol. A scintillation Y-counter was used for determining activity. The "slow" diffusion coefficient, D, as a function of 1/T is a straight line. From its slope the activation energy of diffusion was found to be 51.5 kcal/mole or 2.2 ev, the diffusion coefficient is

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333l₁2 S/181/62/004/001/009/052 B102/B138

"Slow" diffusion of silver...

 $D_{slow} = 4 \cdot 10^{-2} \exp(-51500/RT)$, whereas the "fast" coefficient $D_{fast} = 4 \cdot 4 \cdot 10^{-2} \exp(-23000/RT)$. The activation energy of "slow" diffusion is twice as high as that of "fast". These two types of diffusion do not interact (penetration depth of the "fast" component: $\sim 6700 \mu_{\odot}$ of the "slow" one: $8\mu_{\odot}$, there is a difference of 3 - 4 orders of magnitude in the concentrations ($C_{slow} \ll C_{fast}$). L. A. Khomenko, Junior Scientific collaborator, is thanked for assistance. There are 3 figures and 3 references: 2 Soviet and 1 non-Soviet. The reference to the English-language publication reads as follows: F. A. Trumbore. The Bell Syst. Techn. J. 39, 205, 1960.

ASSOCIATION: Institut poluprovodnikov AN USSR Kiyev (Institute of Semiconductors AS UkrSSR, Kiyev)

SUBMITTED: July 10, 1961

Card 2/1/2

S/181/62/004/006/038/051 B108/B138

AUTHORS:

Ignatkov, V. D., and Kosenko, V. Ye.

TITLE:

Diffusion of tellurium in germanium

PERIODICAL:

Fizika tverdogo tela, v. 4, no. 6, 1962, 1627-1631

TEXT: Diffusion and solubility of tellurium in germanium single crystals between 770 and 900°C were studied. The experiments were performed in evacuated quartz ampoules at tellurium vapor pressure of 10-2 mm Hg. The

isotope Te 125 was used as a tracer. Diffusion was investigated by successive removal of thin layers. Three kinds of diffusion of Te in Ge, each at a different rate, were observed: (1) a new type, the so-called "surface-layer" diffusion with the diffusion coefficient

"surface-rayer" diffusion with $D_{s1} = 5.6 \exp(\frac{-56000}{RT})$. $D_{s} = 2 \exp(\frac{-65000}{RT})$. (2) "Slow" diffusion with $D_{s1} = 5.6 \exp(\frac{-56000}{RT})$.

(3) "Fast" diffusion. The diffusion coefficient of this type at 800° C was $5 \cdot 10^{-7} \text{ cm}^2/\text{sec}$. The respective concentration limits (solubilities) of Te in Ge at 800° C, each pertaining to its specific type of diffusion, were Card 1/2

Diffusion of tellurium in ...

5/181/62/004/006/038/051

B108/B138

 $2.5 \cdot 10^{20}$, $6.3 \cdot 10^{18}$, and $2.5 \cdot 10^{5}$ cm⁻³. There are 4 figures and 1 table.

ASSOCIATION:

Institut poluprovodnikov AN USSR, Kiyev (Institute of Semiconductors AS UkrSSR, Kiyev)

SUBMITTED:

December 25, 1961 (initially) February 19, 1962 (after revision)

Card 2/2

ACCESSION NR: AT4045013

8/0003/64/000/000/0188/0192

AUTHOR: Kosenko, V. Ye.; L. A. Khomenko

TITLE: Diffusion of silver at germanium surfaces

SOURCE: Soveshchaniye po probleme Izpol'zovaniye atomnoy energii. Kiev, 1961. Radiatsionnaya avtomatika, izotopy* i yaderny*ye izlucheniya v nauke i tekhnike (Radiation automation control systems, isotopes, and nuclear radiation in science and technology); doklady* soveshchaniya. Kiev, Izd-vo AN UkrSSR, 1964, 188-192

TOPIC TAGS: silver, germanium, silver diffusion, surface diffusion coefficient, volume diffusion coefficient, semiconductor, germanium monocrystal

ABSTRACT: Previous studies by various Western authors have shown that for metals the coefficient of surface diffusion is significantly larger then the coefficient of volume diffusion. However, similar studies have not been done on semiconductors, in particular, for germanium. The present paper attempts to fill this gap by studying the diffusion of silver at the surface of monocrystalline germanium. The volume diffusion of silver in germanium was studied by the same authors in earlier papers. In the present paper, films (30 x 20 x 1.5 mm) of pure monocrystalline germanium with a relative resistivity of

Card 1/4

ACCESSION NR: AT4045013

nearly 30 ohm-cin were used. In one series of experiments the film was polished with emery paper and etched for two minutes in boiling perhydrol. In a second series the layer was cleaned in a mixture of HNO3 and HF (5:3). The diffusion process was studied by the use of a radioactive indicator (Ag 110). The concentration of silver at a point x on the surface is given by

 $C(x,t) = \frac{Q}{\sqrt{\pi D t}} \exp\left(-\frac{x^2}{4Dt}\right). \tag{1}$

where Q is the total amount of the diffusing silver and D is the diffusion coefficient. This formula is a solution of the diffusion equation under certain assumptions. If log C is plotted against x^2 a straight line is obtained. This relationship is confirmed by the experimental data. Similar theoretical and experimental curves for the dependence of the diffusion coefficient on temperature are shown in Fig. 1 of the Enclosure. The formulas obtained for the surface diffusion coefficient also agreed with experimental data. Orig. art. has: 3 figures and 6 formulas.

ASSOCIATION: None

2/4

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825110001-3

ACCESSION NR: AT4045013

SUBMITTED: 07Jan64

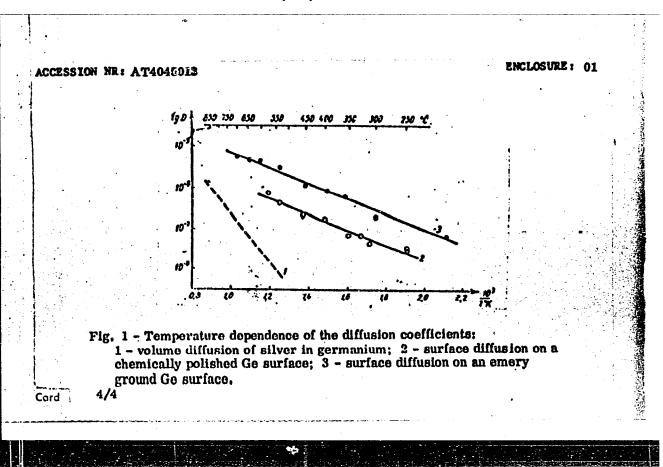
ENCL: 01

SUB CODE: SS

NO REF SOV: 003

OTHER: 007

Card 3/4



KOSENKO, Ye.

Excellent results. Kinomekhanik no.2:7 F'55. (MLRA 8:3)

1. Zaveduyushchiy Kalininskim rayotdelom kul'tury. (Khomich, IAkov)

DUKHOVNAYA, S.A.; KOSENKO, Ye.D.

Interrepublic conference of psychiatrists and neuropathologists of Kazakhstan and the Central Asian republics. Zdrav.

Kazakh. 17 no.12:63-64 '57. (HIRA 12:6)

(NEUROPSYCHIATRY--CONGRESSES)

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825110001-3

FOSENTO, Z. J.

34212. Somnto-vegetativnyye Faktory v geneze otdalennykh nervno-psikhicheskikh rasstroystv posle ostrykh infektsiy. V sb: Problemy Kortiko-vistseral'noy patologii. M., 1949, s. 23°-44

SO: Knizhnaya Letopis' No. 6, 1955

MOSENKO, Z. V.

"Remote Psychic Disturbances After Epidemic Typhus." Sub 9 Neb 51. Acad Med Sci USSR.

Dissertations presented for science and engineering degrees in Moscow during 1951.

30: Sum. No. 480, 9 May 55

KOSENKO, Z.

Rasskazy o zhizni mozga / Stories on the life of the brain / Moskva, Detgiz, / 19537 /. 176 p.

SO: Monthly List of Russian Accessions, Vol. 7 No. 2 May 1954.

Name: KOSENKO, Zinaida Vasiliyevna

Dissertation: Remote Psychic disorders after

severe forms of typhus

Degree: Doc Med Sci

Affiliation: State Inst of Psychiatry of the

Ministry of Health RSFSR

Defense Date, Place: 22 Feb 57, Council of the Depart-

ment of Clinical Medicine of the

Academy of Med 3c1 USSR

Certification Date: 8 Jun 57

Source: BMV0 16/57

34

KOSENKO, Z.V.

APPROVED TEAST: 96/614/2009c-hypothog Profit of 13R000825110001-3" Gos. nauch.-issl. psikhonevr. inst. no.20:213-221 159.

(MIRA 14:1)
1. Institut psikhiatrii Ministerstva zdravookhraneniya RSFSR (dir. - prof. V.M. Banshchikov), Moskva.
(SCHIZOPHRENIA)

KOSENKO, Z.V., doktor med.nauk; PARAMONOVA, E.G., kand.med.nauk

是一个人,这个人的人,他们也不是一个人的人,他们也是一个人的人,他们也不是一个人的人,他们也没有一个人的人,他们也没有一个人的人,他们也没有一个人的人,也可以不

Neuropsychic disorders in patients with coronary atherosclerosis. Klin.med. 37 no.7:72-78 J1 59. (MIRA 12:10)

1. Iz kliniki lechebnogo pitaniya (zav. - prof.F.K.Men'shikov) i serdechno-sosudistogo otdeleniya (zav. - doktor meditsinskikh nauk V.P.Sokolovskiy) Instituta pitaniya AMN SSSR i Instituta psikhiatrii Hinisterstva zdravookhraneniya RSFSR (direktor - prof.V.M.Banshchikov).

(COROHARY DISEASE psychol.)
(MENTAL DISORDERS)

MIKHAYLOV, Nikolay Nikolayevich; KOSENKO, Zinaida Vasil'yevna, doktor med.nauk; VINNIKOVA, G.E., red.; SOKOLOVA, R.Ya., tekhn.red.

[Americans; an account of a trip] Amerikantsy; putevaia povest'. Moskva, Sovetskii pisatel', 1960. 221 p.

(MIRA 13:10)

(United States -- Description and travel)

BANSHCHIKOV, V.M., prof.; KOSENKO, Z.V., doktor med.nauk; ENTIN, G.M.

Vascular diseases and the role of alcohol in them. Sov.med. 25 no.6: 34-40 Je '61. (MIRA 15:1)

1. Iz gosudarstvennogo nauchno-issledovatel skogo instituta psikhiatrii Ministerstva zdravookhraneniya RSFSR (dir. - prof. V.M.Banshchikov). (ALCOHOLISM) (CARDIOVASCULAR SYSTEM_DISEASES)

KOSENKO, Z.V., doktor med.nauk; SAVCHUK, V.I., kand.med.nauk

Clinical characteristics and disorders of higher nervous activity in cerebral vasopathy. Trudy Gos.nauch-issl.inst.psikh. 25:518-537 '61. (MIRA 15:12)

l. Klinika sosudistykh psikhozov (zav. - prof. V.M.Banshchikov)
i otdel patofiziologii vysshey nervnoy deyatel'nosti (zav. prof. Yu.N.Uspenskiy) Gosudarstvennogo nauchno-issledovatel'skogo
instituta psikhiatrii Ministerstva zdravookhraneniya RSFSR.

(NERVOUS SYSTEM) (CEREBROVASCULAR DISEASE)

KOSENKO, Z.V., doktor med.nauk

Neuropsychic disorders in patients who have had a myocardial infarction at a young age; preliminary report. Trudy Gos. nauch-issl.inst.psikh. 25:594-602 '61. (MIRA 15:12)

1. Klinika sosudistykh psikhozov (zav. - prof. V.M.Banshchikov)
Gosudarstvennogo nauchno-issledovatel skogo instituta psikhiatrii
Ministerstva zdravookhraneniya RSFSR.

(HEART-INFARCTION) (MENTAL ILLNESS)

MIKHAYLOV, Nikolay Nikolayevich; KOSENKO, Zinaida Vasil'yevna, doktor med.nauk; VINNIKOVA, G.E., red.; EESSONOVA, N.D., tekhn. red.

[The Americans; travel tales]Amerikantsy; putevaia povest'. 2 izd. Moskva, Sovetskii pisatel', 1962. 237 p.
(MIRA 16:2)

(United States—Social conditions)

KOSENKO, Z.; REMEZOVA, A.; IVANOVA, G.A., otv. red.

[Stories of the life of the brain] Rasskazy o zhizni mozga. Moskva, Izd-vo "Detskaia literatura," 1964. 190 p. (MIRA 18:3)

KOSENKOV, A.

AUTHOR: Kosenkov, A.

107-57-7-53/56

TITLE: Radio Equipment at the Leipzig Fair (Radioapparatura na Leiptsigskoy yarmarke) PERIODICAL: Radio, 1957, Nr 7, pp 59-60 (USSR)

ABSTRACT: Briefly described are radio receivers, tv sets, and tape recorders which were displayed by various countries at the Leipzig Fair, March 1957. Soviet, Czechoslovak, German (East and West), French, Belgian, and British equipment is described or mentioned. Soviet radio industry was represented by "Baykal", "Oktava", "Rodina" (thermopile-fed) radio receivers; by "Rossiya", "Lyuks", "Estoniya", "Druzhba" radio-phonograph combinations; by "Mir", "Soyuz", "Rekord", "Znamya", "Yantar'", and "Moskva" (projection-type) tv sets; by an industrial tv outfit and "other equipment".

AVAILABLE: Library of Congress

Card 1/1

- 1. A. F. KOSENKOV, Eng.
- 2. USSR (600)
- 4. Automobiles
- 7. Private cars and their technical servicing. Gor.khoz. Mosk. 23 no. 8. 1949.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

WASILIYEV, K.N.; VELESHIN, A.S.; KOSENKOV, A.R.

Ionospheric effect of the solar eclipse of February 15, 1961 according to observations made in Moscow. Geomag.i aer. 1 no.2:277-278 Mr-** Ap '61. (MIRA 14:7)

1. Institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln AN SSSR. (Eclipses, Solar—1961) (Ionosphere)

\$/831/62/000/01000011/013 E192/E382

99100

AUTHORS:

Vasil'yev, K.N. and Kosenkov, A.R.

TITLE:

Operational radius of the ionospheric-station observations carried out on board the schooner

"Zarya"

SOURCE:

Ionosfernyye issledovaniya. Sbornik statey, no. 10. V razdel programmy MGG (ionosfera) Mezhduv. geofiz. kom. AN SSSR. Moscow, Izd-vo AN SSSR, 1962. 98-101

TEXT:

Card 1/3

An attempt is made to compare measurements of f_0^{F2} ,

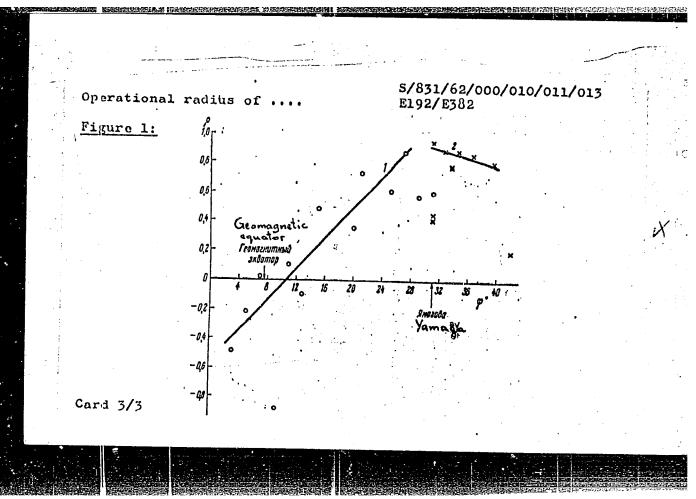
carried out on the schooner "Zarya", with the values of fF2 of the fixed station at Yamagava (Japan), situated in the vicinity of the schooner's route. The comparison is based on the deviation $\triangle f_0$ F2 from the average values rather than the absolute values of f_0 F2. For this purpose, the linear correlation coefficient ρ between the values of $\triangle f_0$ F2 of the two stations is calculated. The number of terms taken for the evaluation of

S/831/62/000/010/011/013 E192/E382

Operational radius of ...

O varied from 24 to 9 (if the number of "blanks" the coefficient at one of the stations were 15). If a larger number of blanks were present, the data for that particular day were disregarded. The route of the schooner extended from New Guinea to the southern extremity of Japan and then to Vladivostok. This route was chosen because it was near to the meridian plane and because the data relating to the ionospheric stations in the vicinity of the route were available. The Yamagava station ($\phi = 31^{\circ}12!$, N and $\lambda = 130^{\circ}37$ E) was conveniently situated. The measurements were made during April/Nay, 1960, when the ionosphere and magnetic field were only moderately perturbed. The values of Pas a function of the latitudinal distance are shown in Fig. 1. It is seen that at low and near-equatorial latitudes the operational radius of the ionospheric station (which is determined by the value of amounts to 5-7°. There are 3 figures and 1 table

Card 2/3



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中国大学学生的中央的政治的大学的工程,因为国际工程的国际,但是国际政治的国际的国际的国际的国际的国际的国际的国际的国际的国际,

KOSENKOY, A.Ya.

AID P - 833

Subject

: USSR/Chemistry

Card 1/1

Pub. 78 - 18/26

Author

: Kosenkov, A. Ya.

Title

THE RESERVE OF THE PERSON OF T Mixing of petroleum products in consecutive pumping

through the main pipe line

Periodical: Neft. khoz., v. 32, #9, 77-84, S 1954

Abstract

Theoretical analysis of mixing of two different liquids flowing in the pipe line is presented as function of basic parameters. (Reynold's coefficient, ratio of densities, and ratio coefficient of concentration). Laboratory experiments confirm the proposed theory, which on the basis of the theory of similarity can be applied to practical cases. 4 charts, 2 tables and 2 Russian references (1948, 1949).

Institution:

None

Submiltted

No date

SOURCE: Ref. 2h. Fizika; Abs. 9Zh404

A. THORS: Kosenkov; A. Ya.; Goryschko, G. V.; Baranov, A. I.

TIT E. Effect of ultra-acoustic field on the mechanical impurities in petroleum products.

CITED SOURCE: Uch. zap. Kalininsk. gos. ped. in-t. v. 33, 1963, 3-17

TOPIC TAGS: petroleum, ultrasonic filter, mechanical filter

TRANCLATION: An experimental ultrasonic filter (UF) was prepared in the form of a disc 340 mm in diameter, perforated and covered with a copper grid with filament thickness. 27u and with mesh 45p., having a filtering surface 200 cm²; the disc with the grid were sudered to the end of a nickel magnetostrictor of the NEL-4 type. During the vertes sudered to the end of a nickel magnetostrictor of the NEL-4 type. During the vertes sudered to the end of a nickel magnetostrictor of the NEL-4 type. During the vertes sudered to the end of a nickel magnetostrictor of the NEL-4 type. During the vertes sudered to the end of a nickel magnetostrictor of the NEL-4 type. During the vertes of the filtering, ultrasonic oscillations of frequency 20.5 kcs at an excited acoustic power of 400 W were applied to the UF; this yielded a per unit oscillation power cord 1/2

L 16 23.65 ACC SSION NR: AR5000763 5 W/cm². The UF was used in experiments on filtering of commercial diesel fuel (GOt 7 305-58). A qualitative control over the results of the filtering was effected by measuring under the microscope the maximum size of the mechanical-impurity particles and behind the filter. At it mesh dimension of 45 µ, the particle sizes of the mechanical impurities passing through the filter was < 15µ; i.e., smaller than those passed by a cloth filter. This was attributed to the effect of the ultrasonic field. The 		
expiriments have shown that of filters are the appreciably lar and the considerably longer ti	pher advantages of the or over ger rate of filtration with a sma nie elapsed before the filter clop	ller filter pressure drop
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SUI CODE: IE, GP		
SUI CODE: IE GP		
SUI CODE: 1E, GP		

Kosenkov, USCR/Miscellameous - Radiofication Pub. 133 - 13/23 Card 1/1 : Kosenkov, M. A., Head of Belaya Tserkov! District Communications Office Authors Radio in Kolkhoz dwelling houses Title Periodical : Vest. svyazi 8, page 20, Aug 1954 Information is given on the progress made in the radiofication of the Belaya Tserkov' Disctrict in the Kiev Region, namely, the number and location Abstract of radio centers; number of newly installed radio-outlet points; position and number of public address systems (loudspeaker points); and the number of new radio-receivers. The individual contributions of several radio workers to the development of radio in the Kolkhozes are pointed out. Institution: Submitted:

KOSENKOV, M.A.

Work constructively and with initiative. Vest.sviazi 16 no.5: 19-21 Je '56. (MLRA 9:8)

1. Nachal'nik Belotserkovskoy kontory svyazi. (Belaya TSerkov'--Telecommunication) (Postal service)

MALYSHEVA, Nadezhda Ivanovna; BARYSHNIKOV, Aleksandr Vasil'yevich;

KOSENKOV, Nikolay Ivanovich; FOHIN, P.D., nauchnyy red. [decessed];

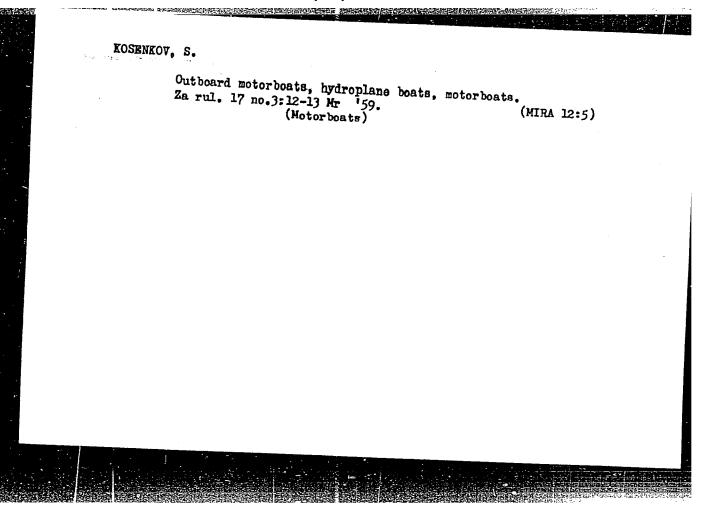
GABOVA, D.M., red., MEDVENKV, L.Ya., tekhn.red.; KNAKNIN, M.T.,
tekhn.red.

[Design and control of Cotton machines] Ustroistvo i regulirovanie kottonnykh mashin. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po legkoi promyshl., 1959. 221 p. (MIRA 12:12) (Knitting machines)

KOSENKOV, O.M.

Electromagnetic field of a circular loop at the earth-air boundary. Izv. AN SSSR. Ser. geofiz. no.12:1845-1851 D '63. (MIRA 17:1)

l. Kompleksnaya tematicheskaya geofizicheskaya ekspeditsiya.



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CIA-RDP86-00513R000825110001-3

KOSENKOV, S.A., inzhener.

Efficient design of hoisting and conveying equipment used for installation of precast bridges. Avt.dor. 20 no.3:20-22 Mr '57. (MLRA 10:5)

(Bridges--Construction)

KOSA KOV SUL

VORONTSOV, I.F.; KOSENKOV, S.V.; YAKOVLEV, N.P.; BALDIN, Ya.Ye.; SOKOLOV, N.A.; BESHKAREV, N.A.; LYUKSHIN, H.G.; SLAVHOV. V.P.; CHUVAKOV, N.Ye., redaktor; DMITRIYEV, A.A., redaktor; KUZ'MIN, I.F., tekhnicheskiy redaktor.

,然后不是国家的政治的,我们就是国家的人,但是是国家的人,但是国家的人,但是国家的人,但是国家的人,但是国家的人,但是国家的人,但是国家的人,但是国家的人,但是

[Manual for boys under military age] Posobie dlia doprizyvnika. Izd.2-e, ispr. i dop. Moskva, Voen. izd-vo Ministerstva oborony SSSR. 1955. 351 p. (MLRA 8:11) (Military education)

KOSENKOV, V., inzh.; RYNKOVENKO, O., inzh.

Repairing the body of the LiAZ-158 motorbus. Avt. transp. 41 no.6:34-35 Je 163. (MIRA 16:8)

FARAMAZOV, S.A.; KOSENKOV, V.G.; AKHMEDOV, K.R.

Stabilizing the draft of pipestill flues. Nefteper. i neftekhim. no.4:45-47 165. (MIRA 18:5)

1. Bakinskiy neftepererabatyvayushchiy zavod im. XXII s^zyezda Kommunisticheskoy partií Sovetskogo Soyuza.